AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031 P.O Box 240, North Melbourne, Victoria 3051 Phone (03) 9371 2400

TEST REPORT

Client: Bremworth Test Number:

Auckland 2104 New Zealand

Sample Description Clients Ref: "AORAKI 740"

Loop pile carpet

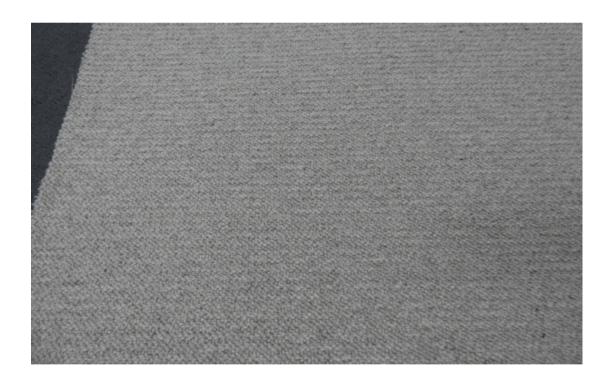
Colour: Beige

End Use: Flooring

Nominal Composition: 100% Wool

Nominal Mass per Unit Area/Density: 1356g/m2

Nominal Thickness: 10.2mm



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MICHAEL A. JACKSON B.Sc.(Hons)

23-004588

Fiona McDonald

APPROVED SIGNATORY

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TEST REPORT

Client: Bremworth Test Number: 23-004588

Auckland 2104 New Zealand

ASTM C518-2021 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus

Test Date		15-11-2023	
Test Apparatus		Lasercomp Fox 314	
Sample Orientation		Horizontal	
Heat Flow Direction		Up	
Mean Test Temperature		23	°C
Temperature Differential		20	°C
Average Thermal Gradient		417.0	K/m
Estimated uncertainty in results		3.1	%
Specimen	1	2	
Specimen Thickness	9.7	9.5	mm
(as received)			
Specimen Thickness	49	47	mm
(as tested) Specimen Density	276	273	kg/m³
(as tested)			
Test Duration	01:34	02:04	hrs:mins
Measured Heat Flux	25.4	26.2	W/m²
Measured Thermal Conductance	6.3414	6.5389	W/m²K
Measured Thermal Conductivity	0.0617	0.0619	W/m.K
Thermal Resistance	0.79	0.76	m²K/W
Thermal Resistance (1 layer)	0.16	0.15	m²K/W

The calibration of the Heat Flow Apparatus was checked immediately prior to the commencement of the test.

The specimens were tested as 2 piles of 5 tiles stacked face to back with the back towards the hot plate.

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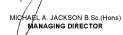
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